

Code No.: CS702PC/AI735PE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–I–Semester End Examinations (Supply) – April - 2025

INTERNET OF THINGS

(Common for CSE, CSM)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) Define Internet of Things. [2M]
- b) What is the functionality of CoAP? [2M]
- c) Differences between IoT and M2M. [2M]
- d) What is the need for IoT Systems Management? [2M]
- e) List various data types in python. [2M]
- f) Define Tuple. [2M]
- g) What is an IoT device? [2M]
- h) What is Raspberry Pi? [2M]
- i) Write the basic types of APIs. [2M]
- j) Define Django. [2M]

PART-B

(50 Marks)

2. Discuss various levels of IoT System. [10M]
- OR**
3. How can IoT technology be used in home automation? Explain. [10M]
4. Explain in detail about Software Defined Networking with a neat sketch. [10M]
- OR**
5. Discuss generic approach of IoT device management with NETCONF-YANG. [10M]
6. Explain various control flow statements in python. [10M]
- OR**
7. Discuss about python packages. [10M]
8. Discuss Raspberry Pi Interfaces. [10M]
- OR**
9. How Raspberry Pi can be interfaced with various peripheral devices? Explain. [10M]
10. Explain Cloud Storage Models & Communication APIs in detail. [10M]
- OR**
11. How to Design a RESTful Web API? Explain. [10M]
